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RELIABILITY PREDICTION

Model : S-40 Data:2000-01-03

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	22	0.003700	10	0.814000	25.575
9.1	Resistor-Film Power (RD)	2	0.010000	10	0.200000	6.284
9.1	Resistor-Wirewound Power (RW)	1	0.008500	10	0.085000	2.671
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	12.567
9.1	Resistor-Thermistor (RTH)	1	0.001400	10	0.014000	0.440
10.1	Capacitor-Metal, Plastic (CH)	9	0.000510	10	0.045900	1.442
10.1	Capacitor-Ceramic(Gen.) (CK)	10	0.001700	10	0.170000	5.341
10.1	Capacitor-Aluminum Dry (CE)	7	0.001300	10	0.091000	2.859
6.1	Diode-Switching	3	0.000940	8	0.022560	0.709
6.1	Diode-Fast Recovery Power Rectifier	2	0.023000	8	0.368000	11.562
6.1	Diode-Power Rectifier / Schottky Power	4	0.002800	8	0.089600	2.815
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	2	0.003300	8	0.052800	1.659
6.1	Diode-Transient Suppressor/Varistor	1	0.002900	8	0.023200	0.729
6.4	Transistor-MOSFET	1	0.014000	8	0.112000	3.519
6.11	OPTO-isolator	2	0.027000	8	0.432000	13.573
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.118
5.1	Linear Microcircuits	2	0.009500	10	0.190000	5.969
11.1	Transformer Switching	1	0.000610	3	0.001830	0.057
11.2	Coil Fixed inductor or choke	2	0.000032	3	0.000192	0.006
17.1	Single Connections-Reflow solder	185	0.000069	1	0.012765	0.401
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.008
22.1	Fuses	1	0.010000	1	0.010000	0.314
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	1.382
Total Failure rate:					3.182847	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**

MTBF: 314184.13 **hrs**

Approved by: David Wang Compiled by: Kim Tseng